



## Tessellation 7

Suite: Tessellation Party!

by Arya Akhavan (October 2012)

Angles for R.I. = 1.540

37 + 8 girdles = 45 facets

4-fold radial symmetry

96 index

L/W = 1.000 T/W = 0.440 U/W = 0.440

P/W = 0.501 C/W = 0.195

Vol./W<sup>3</sup> = 0.280

## PAVILION

P1	43.34°	21-45-69-93	Cut to centerpoint.
P2	43.00°	16-40-64-88	Meet at culet.
P3	42.15°	15-39-63-87	Meet at culet (optional).
G1	90.00°	96-24-48-72	Set stone size.
G2	90.00°	16-40-64-88	Level girdle.
P4	65.00°	96-24-48-72	Level girdle.

## CROWN

C1	47.24°	96-24-48-72	Set girdle width.
C2	37.14°	08-32-56-80	Level girdle.
C3	33.56°	23-47-71-95	Meet G1, G2, C1, C2
C4	29.72°	09-33-57-81	Meet G1, G2, C1, C2, C3
C5	25.00°	05-29-53-77	Meet C1, C2, C3, C4
T	0.00°	Table	Meet C3, C4, C5

This is a rebuild of a slightly different older version that was much more difficult to cut. This particular version should be easy and very straightforward, while also performing extremely well. Right around the 1.70 RI range, some very interesting effects appear! Works in materials from quartz to rutile (RI = 1.54 to 2.62) with no changes. P3 is technically optional but helps establish the girdle outline a bit better.

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